



Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Suitland Garage Expansion Joint RFI's 001 and 002

5 messages

(b) (6) @cinnovas.com>

Wed, Sep 16, 2020 at 9:50 AM

To: andre.thomas@gsa.gov

Cc: (b) (6) @atlanticrr.com>, (b) (6) @davidsonbrown.pro" (b) (6) @davidsonbrown.pro>, (b) (6)

(b) (6) @cinnovas.com>, (b) (6) @cinnovas.com>

Hi Andre,

The team was preparing to install the first few expansion joints late yesterday and noticed some oddities with the sizes and contents of the gaps for installation. As a result, (b) (6) from Atlantic did a site walk this morning and produced RFI's 001 and 002 for your review, which I have attached below.

Can you please give us direction for these RFI's at your earliest convenience, as the answers may affect the schedule and course of work. Please don't hesitate to give me a call if you have any questions, concerns, or want any clarifications.

Thanks,

(b) (6)

Project Support Officer

Cinnovas Development Group, LLC

Cell (b) (6)

2 attachments**4600 Silver Hill Road - RFI #002.pdf**

147K

**4600 Silver Hill Road - RFI #001.pdf**

675K

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Wed, Sep 16, 2020 at 10:45 AM

To: (b) (6) @cinnovas.com>

Cc: (b) (6) @atlanticrr.com>, (b) (6) @davidsonbrown.pro" (b) (6) @davidsonbrown.pro>, (b) (6)

(b) (6) @cinnovas.com>, (b) (6) @cinnovas.com>

Thanks (b) (6)

Give me a moment to review and I will get back to Cinnovas with a path forward.

*THINK, PLAN, ACT, BE THANKFUL**Best Regards,***U.S. General Services Administration**

Andre Thomas, PMP
Project Manager
Contracting Officer Representative
Office of Design and Construction

Public Buildings Service
National Capital Region (R11)
Triangle Service Center

Cell Phone: (b) (6)
Email: andre.thomas@gsa.gov

On Wed, Sep 16, 2020 at 9:50 AM (b) (6) <(b) (6)@cinnovas.com> wrote:
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(b) (6)
Project Support Officer
Cinnovas Development Group, LLC
Cell: (b) (6)

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Thu, Sep 17, 2020 at 3:23 PM

To: (b) (6) <(b) (6)@cinnovas.com>

Cc: (b) (6) <(b) (6)@davidsonbrown.pro>, (b) (6) <(b) (6)@davidsonbrown.pro>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>

(b) (6)

Regarding RFI 001 has Cinnovas considered getting a hold of technical services at EMSEAL to see what they suggest and/or will allow in this kind of situation?
If so, what was their recommendation? Do they have a product for odd section profiles? If so, it may be easier to go that route vs. cutting the slab.
Let me know.

THINK, PLAN, ACT, BE THANKFUL

Best Regards,



U.S. General Services Administration

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Project Manager
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National Capital Region (R11)
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Thanks,

(b) (6)

Project Support Officer
Cinnovas Development Group, LLC
Cell: (b) (6)

(b) (6) @atlanticrr.com>

Thu, Sep 17, 2020 at 3:46 PM

To: Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Cc: (b) (6) @cinnovas.com>, (b) (6) @davidsonbrown.pro" (b) (6) @davidsonbrown.pro>, (b) (6) @cinnovas.com>, (b) (6) @cinnovas.com>

Hey guys not trying to be pushy here but did we decide on an answer?

(b) (6)

Project Manager
Atlantic Refinishing & Restoration
6640 Ammendale Road
Beltsville, MD 20705
Cell (b) (6)
Office - 301-843-8331

On Sep 16, 2020, at 10:45 AM, Andre Thomas - WPIDBA <andre.thomas@gsa.gov> wrote:

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U.S. General Services Administration

Andre Thomas, PMP
Project Manager
Contracting Officer Representative
Office of Design and Construction

Public Buildings Service
National Capital Region (R11)
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Cell Phone: (b) (6)
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Project Support Officer
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Cell: (b) (6)

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Thu, Sep 17, 2020 at 4:40 PM

To: (b) (6)@cinnovas.com>, (b) (6)@cinnovas.com>, (b) (6)

(b) (6)@cinnovas.com>, (b) (6)@atlanticrr.com>

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GSA response to RFI 001:

Modifying the edge of the concrete substrate is acceptable however; be cautious not to cut or interfere any existing slab rebar.

In addition, a registered professional structural engineer needs to provide a letter confirming this slab modification will not affect the overall existing slab integrity and load capacity

THINK, PLAN, ACT, BE THANKFUL

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U.S. General Services Administration

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Contracting Officer Representative
Office of Design and Construction

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National Capital Region (R11)
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On Thu, Sep 17, 2020 at 3:47 PM (b) (6)@atlanticrr.com> wrote:
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6640 Ammendale Road
Beltsville, MD 20705

Cell - (b) (6)
Office - 301-843-8331

On Sep 16, 2020, at 10:45 AM, Andre Thomas - WPIDBA <andre.thomas@gsa.gov> wrote:

Thanks Ethan.

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THINK, PLAN, ACT, BE THANKFUL

Best Regards,



U.S. General Services Administration

Andre Thomas, PMP
Project Manager
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Office of Design and Construction

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Cinnovas Development Group, LLC
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Suitland Garage Expansion Joint RFI's 001 and 002

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National Capital Region (R11)
Triangle Service Center

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[Quoted text hidden]

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Thu, Sep 17, 2020 at 3:23 PM

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U.S. General Services Administration

Andre Thomas, PMP
Project Manager
Contracting Officer Representative
Office of Design and Construction

Public Buildings Service
National Capital Region (R11)
Triangle Service Center
Cell Phone: 202-215-6284
Email: andre.thomas@gsa.gov

On Wed, Sep 16, 2020 at 9:50 AM Ethan Owens <ethan.owens@cinnovas.com> wrote:

[Quoted text hidden]

(b) (6) <(b) (6)@atlanticrr.com>

Thu, Sep 17, 2020 at 3:46 PM

To: Andre Thomas - WPIDBA <andre.thomas@gsa.gov>
Cc: (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>

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Project Manager
Atlantic Refinishing & Restoration
[6640 Ammendale Road](https://www.google.com/maps/place/6640+Ammendale+Road,+Beltsville,+MD+20705)
[Beltsville, MD 20705](https://www.google.com/maps/place/6640+Ammendale+Road,+Beltsville,+MD+20705)
Cell - (b) (6)
Office - 301-843-8331

On Sep 16, 2020, at 10:45 AM, Andre Thomas - WPIDBA <andre.thomas@gsa.gov> wrote:

[Quoted text hidden]

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Thu, Sep 17, 2020 at 4:40 PM

To: (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@atlanticrr.com>

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In addition, a registered professional structural engineer needs to provide a letter confirming this slab modification will not affect the overall existing slab integrity and load capacity

[Quoted text hidden]

[Quoted text hidden]

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Thu, Sep 17, 2020 at 4:45 PM

To: Harvey Maruya Maruya - WPDAA <harvey.maruya@gsa.gov>, Arash Aghvami - WPDAB <seyyed.aghvami@gsa.gov>

I have confirmed that the contractor contacted emseal prior to the development of the RFI. Emseal's recommendation was what the contractor asked for in RFI 001.

So I have just submitted the response to the contractor as detailed below in the forwarded email for your reference.

[Quoted text hidden]

Harvey Maruya Maruya - WPDAA <harvey.maruya@gsa.gov>

Thu, Sep 17, 2020 at 6:09 PM

To: Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Cc: Arash Aghvami - WPDAB <seyyed.aghvami@gsa.gov>

Andre, thanks for keeping us in the loop.

Regards,
Harvey

Harvey Maruya, AIA, MBA

Regional Chief Architect |

Branch Chief - Architecture + Interiors

Office of Planning and Design Quality (OPDQ)

Public Buildings Service, National Capital Region

U.S. General Services Administration

1800 F Street NW, Suite 4400, Washington, DC 20407

E: harvey.maruya@gsa.gov

C: (b) (6)

[Quoted text hidden]

(b) (6) <(b) (6)@atlanticrr.com>

Fri, Sep 18, 2020 at 2:50 PM

To: Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Cc: (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>

(b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@davidsonbrown.pro>, (b) (6) <(b) (6)@davidsonbrown.pro>

Team my structural engineer is asking for a set of ironical structural drawings of the garage. Is that something you can provide?

(b) (6)

Project Manager
Atlantic Refinishing & Restoration
6640 Ammendale Road
Beltsville, MD 20705
Cell - (b) (6)
Office - 301-843-8331

On Sep 17, 2020, at 4:40 PM, Andre Thomas - WPIDBA <andre.thomas@gsa.gov> wrote:

[Quoted text hidden]

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Fri, Sep 18, 2020 at 3:39 PM

To: (b) (6) <(b) (6)@atlanticrr.com>

Cc: (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@davidsonbrown.pro>

Chris,
I'll try to get something over this evening.

Andre Thomas, PMP
Project Manager/COR
Triangle Service Center
GSA/PBS/NCR/ODC
Cell (b) (6)

[Quoted text hidden]

(b) (6) <(b) (6)@atlanticrr.com>

Fri, Sep 18, 2020 at 3:41 PM

To: Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Cc: (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@davidsonbrown.pro>

Ok thank you.

(b) (6)

Project Manager
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6640 Ammendale Road
Beltsville, MD 20705
Cell - (b) (6)
Office - 301-843-8331

On Sep 18, 2020, at 3:39 PM, Andre Thomas - WPIDBA <andre.thomas@gsa.gov> wrote:

[Quoted text hidden]

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Fri, Sep 18, 2020 at 9:08 PM

To: (b) (6) <(b) (6)@atlanticrr.com>

Cc: (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@cinnovas.com>, (b) (6) <(b) (6)@davidsonbrown.pro>

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(b) (6)

Attached are the structural drawings I have for the garages.
Thanks for jumping on this.
Let me know if you need anything else.

Have a safe weekend.

[Quoted text hidden]

[Quoted text hidden]



Garage Structural Drawings MD0778AG and MD1822AG North South Garage Expansion Joint 091820.pdf
19462K

Andre Thomas - WPIDBA <andre.thomas@gsa.gov>

Mon, Sep 21, 2020 at 1:06 PM

To: (b) (6) @atlanticrr.com>

Cc: (b) (6) @cinnozas.com>, (b) (6) @cinnozas.com>, (b) (6)

<(b) (6) @cinnozas.com>, (b) (6) @davidsonbrown.pro (b) (6) @davidsonbrown.pro>

GSA Response to RFI 002:

A shutdown will be granted to the greatest extent possible. The contractor is to furnish a shutdown schedule to be reviewed and approved by the GSA Building Management and Project Manager prior to any shutdown.

It is important to note that GSA will not be able to completely verify that all electricity is down after the shutdown in the work area and the contractor will be expected to perform their own due diligence to ensure safety of the workers.

[Quoted text hidden]

[Quoted text hidden]



REQUEST FOR INFORMATION

Project: 4600 Silver Hill Road

Author RFI No.001

Initiation Date: 09/16/20

Submitted To:

(b) (6)

Cinnovas Development Group, LLC

Subject: Concrete at Expansion Joint Condition

Information Requested:

After removing existing expansion joint materials, preparing the joint we realized that the "throat" of the joint is not a linear concrete slab edge, and in fact the concrete at various areas of a typical joint angles back in towards the center of the slab. Which is preventing Atlantic from installing the expansion joint as intended per manufacture direction. In order to properly install the expansion joint, Atlantic will need to modify the edge of the concrete substrate. By modifying the concrete to an even linear space between the two slabs the expansion joint will be able to move and flex with the structure as intended. Please see attached pictures and drawings to help further understand.

Can you please confirm this is an acceptable solution to the issue at bay.

Submitted By:

(b) (6)

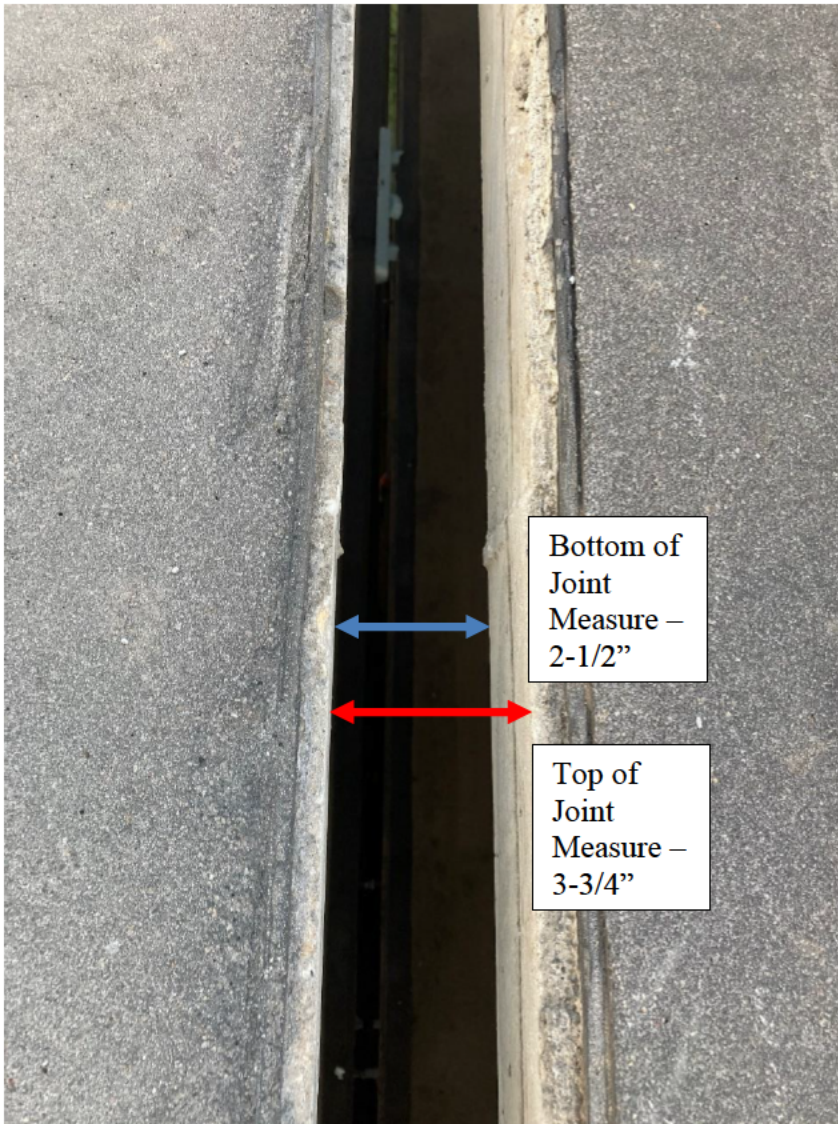
Project Manager

Agent for Owner

(b) (6) - 09/16/20

(signature & date)

(signature & date)



Answer:

Submitted By:

(b) (6)

Project Manager

(b) (6) - 09/16/20

Agent for Owner

(signature & date)

(signature & date)

Submitted By:

(b) (6)

Project Manager

(b) (6) - 09/16/20

Agent for Owner

(signature & date)

(signature & date)





REQUEST FOR INFORMATION

Project: 4600 Silver Hill Road

Author RFI No.001

Initiation Date: 09/16/20

Submitted To:

(b) (6)

Cinnovas Development Group, LLC

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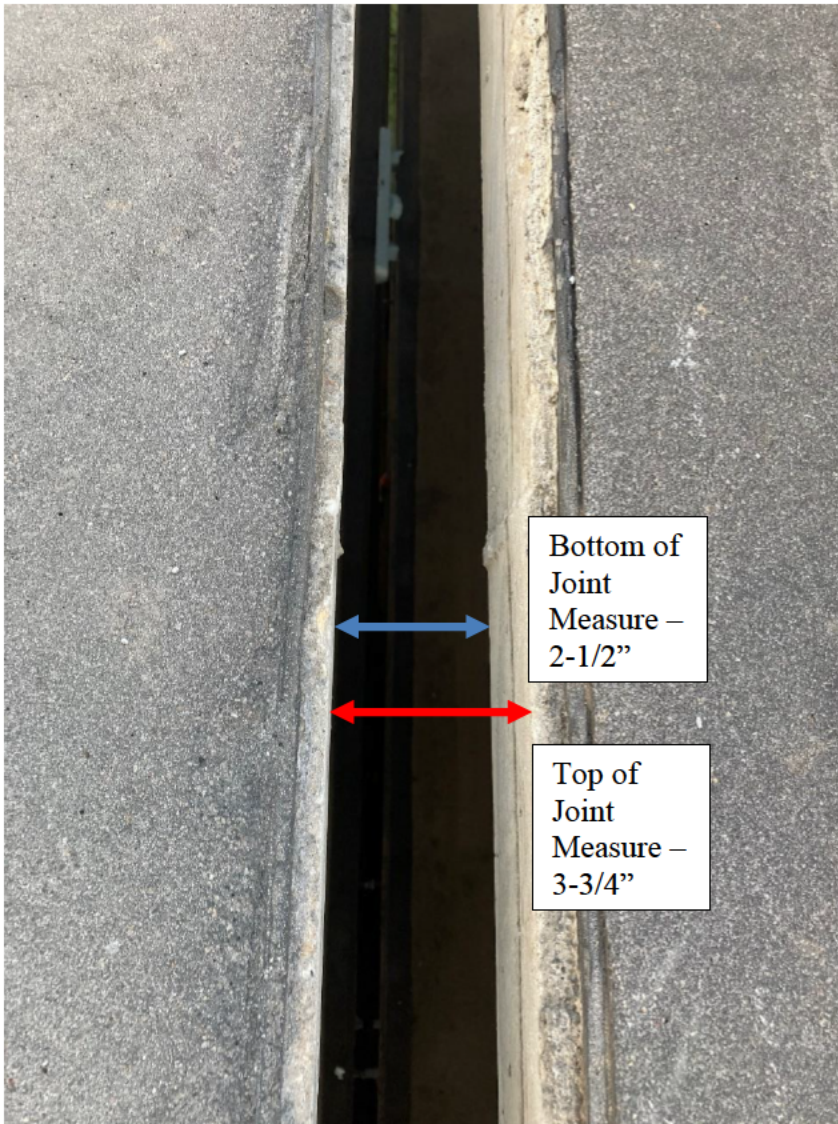
Project Manager

Agent for Owner

(b) (6) - 09/16/20

(signature & date)

(signature & date)



Answer:

Submitted By:

(b) (6)

Project Manager

(b) (6) - 09/16/20

Agent for Owner

(signature & date)

(signature & date)

Submitted By:

(b) (6)

Project Manager

(b) (6) - 09/16/20

Agent for Owner

(signature & date)

(signature & date)





REQUEST FOR INFORMATION

Project: 4600 Silver Hill Road

Author RFI No.002

Initiation Date: 09/16/20

Submitted To:

(b) (6)

Cinnovas Development Group, LLC

Subject: Electrical Power Source

Information Requested:

There is existing electrical conduit running through the expansion joint. In order to make the modifications to the concret that supports the expansion joint Atlantic is requesting that the power be shut off while demoing around the conduits. Can you please confirm if the power can be shut off to the garage during the demolition?

Answer:

Submitted By:

(b) (6)

Project Manager

Agent for Owner

(b) (6) - 09/16/20

(signature & date)

(signature & date)

Submitted By:

(b) (6)


Project Manager

(b) (6) - 09/16/20

Agent for Owner

(signature & date)

(signature & date)

 CINNOVAS		Suitland Garage Expansion Joint Replacement— Request For Information (RFI)	
RFI Number:	3	Due Date:	11/13/2020
Subject:	Walter P Moore Design Solution to Tapered Edges	Status:	Open
Assignees:	Andre Thomas	Ball In Court:	Andre Thomas
RFI Manager	(b) (6)	Distribution List:	N/A
Created By:	(b) (6)	Date Initiated:	11/6/2020
Received From:	N/A	Responsible Contractor:	Cinnovas
Drawing Number:	N/A	Location:	Suitland Federal Center
Spec Section:	N/A	Cost Code:	N/A
RFI Stage:	Course of Construction	Reference:	N/A
Schedule Impact:	TBD	Private:	No
Cost Impact:	TBD		
Question:	As follow-up, can GSA please let us know if the attached design solution will be acceptable to correct the out-of-square existing conditions of the garage concrete slab edges so that the Emseal expansion joint material can be installed per the manufacturer?		
Response:			

CINNOVAS DEVELOPMENT GROUP

SUITLAND FEDERAL CENTER
PARKING STRUCTURE

SUITLAND, MD

(b) (5), (b) (7)(F)

SHEET LIST	
SHEET NUMBER	SHEET NAME
S0.0	COVER SHEET
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S1.0	ROOF PLAN - AREA A
S1.1	ROOF PLAN - AREA C
S1.2	LEVEL 4 - AREA A
S1.3	LEVEL 4 - AREA C
S1.4	LEVEL 3 - AREA A
S1.5	LEVEL 3 - AREA C
S1.6	LEVEL 2 - AREA A
S1.7	LEVEL 2 - AREA C
S1.8	LEVEL 1 - AREA A
S1.9	LEVEL 1 - AREA B
S1.10	LEVEL 1 - AREA C
S2.0	REPAIR DETAILS
S2.1	REPAIR DETAILS



Walter P Moore and Associates, Inc.
1747 Pennsylvania Av NW, Suite 1050
Washington, DC 20006

202.481.7685

Project Name:

SUITLAND FEDERAL
CENTER PARKING
STRUCTURE

Client:

CINNOVAS
DEVELOPMENT
GROUP



I hereby certify that these documents were approved by me, and that
I am a duly licensed professional engineer under the laws of the
State of Maryland, License No. 51800, Expiration Date 11/22/2021.

No.	Date	Description
	11/6/2020	Expansion Joint RFI Response

Designed by:	JS/NJ
Approved by:	MH
Drawn by:	NJ
Project Number:	D01.20007.00
Date:	11/06/20
Sheet Title:	

COVER SHEET

Sheet Title:

S0.0

GENERAL STRUCTURAL NOTES			
PART I - DESIGN CRITERIA	PART III - SURFACE PREP. FOR PATCHING	PART III - SURFACE PREP. FOR PATCHING	PART IV - CONCRETE REPAIR MATERIALS
<p>A. GENERAL BUILDING CODE</p> <ol style="list-style-type: none"> The Repair Documents are based on the requirements of the Maryland Building Rehabilitation Code and 2015 International Existing Building Code (IEBC). 	<p>F. RESURFACING PREPARATION (CONT)</p> <ol style="list-style-type: none"> Where embedded reinforcement, anchorages is exposed by concrete removal, proceed with caution to avoid damaging it during removal of unsound concrete. If bond between exposed embedded reinforcement/anchorages and adjacent concrete is impaired by Contractor's removal operation, Contractor shall perform concrete repair instead of concrete resurfacing along entire length affected at no cost to owner. If rust is present on embedded reinforcement where it enters sound concrete perform concrete repair instead of concrete resurfacing along the length of corroded reinforcement. Additional removal shall continue until non-rusted reinforcement is exposed, or may be terminated per Engineer's instructions. Edges of patch areas shall be dressed perpendicular to member face to eliminate feather edges. All edges shall be straight and resurfacing areas square or rectangular-shaped. Do not overcut patch corners during sawcutting, chipping, or grinding. Contractor shall exercise extra caution during demolition to avoid damaging existing reinforcement particularly post-tensioned tendons, sheathing, and any other embedded items near surface of concrete. Any damage to existing embedded items shall be repaired by Contractor with Engineer's approved methods at no additional cost to Owner. 	<p>J. PREPARATION OF CAVITY FOR PATCH PLACEMENT</p> <ol style="list-style-type: none"> Cavities will be examined prior to commencement of patching operations. Sounding surface shall be part of examination. Delaminations noted during sounding shall be removed as specified in this Section. All debris shall be removed from site prior to commencement of patching 	<p>F. RESURFACING WITH REPAIR MORTAR (CONT)</p> <ol style="list-style-type: none"> Thoroughly blend components and aggregates with portable mixers to a uniform and homogenous mixture. Small batches of one quart or less may be mixed by spatulas, palette knives or similar devices. Mixing should be accomplished within three (3) minutes when using Jiffy mixer or five minutes when mixed by hand. Apply mortar by means suitable for the consistency of the mortar mix. Consolidate the mortar thoroughly to remove entrapped air. Resurfacing mortar thickness shall not be less than 1/8 inch (3 mm) thick and not less than the manufacturer's written recommended minimum placement thickness. Use epoxy paste for resurfacing concrete less than or equal to 1/8" thickness. Finish surface of mortar to match the texture and contours of existing concrete.
PART II - NON-DESTRUCTIVE EVALUATION		PART IV - CONCRETE REPAIR MATERIALS	
<p>A. ITEMS EMBEDDED IN CONCRETE STRUCTURES</p> <ol style="list-style-type: none"> Items embedded in concrete structures shall not be damaged unless specified during repair work. Embedded items may include mild reinforcement, prestressing reinforcement, dowels, embedded connections, electrical conduits, plumbing, etc. Items embedded in concrete shall be located by non-destructive evaluation prior to performing any work. Contractor shall mark on the structure the location of embedded items and provide a report to the Engineer. 	<p>G. REPAIR PREPARATION</p> <ol style="list-style-type: none"> Contractor shall review all marked removal and preparation areas. All delaminated, spalled and unsound concrete shall be removed from within marked boundary to minimum depth of 3/4 inch (19mm) using 15 lb (65N) to 30 lb (130N) air hammers equipped with chisel point bits. When directed by Engineer, chipping hammers less than 15 lb (65 N) shall be used to minimize damage to sound concrete. If delaminations exist beyond minimum removal depth, chipping shall continue until all unsound and delaminated concrete has been removed from cavity. Where embedded reinforcement, anchorages, or electrical conduit is exposed by concrete removal, proceed with caution to avoid damaging it during removal of unsound concrete. Contractor shall perform additional removal around and beyond perimeter of reinforcement for minimum of 3/4 inch (19mm) along entire length affected at no cost to Owner. If rust is present on embedded reinforcement where it enters sound concrete, additional removal of concrete along and beneath reinforcement will be required. Additional removal shall continue until non-rusted reinforcement is exposed, or may be terminated per Engineer's instructions. Removal of concrete for repair requires saw cutting 3/4 inch (19mm) into floor slab of the perimeter of the removal, unless a more stringent criteria applies. For vertical and overhead surfaces marked areas shall be saw-cut, ground, or chipped to depth of 1/2 inch (12 mm) to existing concrete, measured from original surface. Edges of patch areas shall be dressed perpendicular to member face to eliminate feather edges. All edges shall be straight and patch areas square or rectangular-shaped. Do not overcut patch corners during sawcutting, chipping, or grinding. Contractor shall exercise extra caution during saw cutting to avoid damaging existing reinforcement particularly post-tensioned tendons, sheathing, and any other embedded items near surface of concrete. Any damage to existing embedded items shall be repaired by Contractor with Engineer's approved methods at no additional cost to Owner. 	<p>A. GENERAL</p> <ol style="list-style-type: none"> This Section includes the provisions of all labor, materials, supervision and incidentals required to prepare deteriorated or damaged concrete surfaces and install patching materials to restore original surface condition and integrity. <p>B. CONCRETE REPAIR MATERIALS</p> <ol style="list-style-type: none"> High Strength Epoxy Paste Adhesive For Vertical Repairs <1/8" <ol style="list-style-type: none"> Northern Manufacturing Construction Grade Epoxy or manufacturer approved equivalent Polymer Modified Mortar for Vertical Repairs >1/8" <ol style="list-style-type: none"> Master Builder Solutions; MasterEmaco N 425 Sika Corporation; SikaTop 123 Plus Euclid Chemical Company; Verticoat Supreme High Early-Strength Mortar for Horizontal Repairs <ol style="list-style-type: none"> Master Builder Solutions; MasterEmaco T 1060 or MasterEmaco T 1061 Sika Corporation; SikaQuick 1000 or SikaQuick 2500 Euclid Chemical Company; VersaSpeed 100 or VersaSpeed LS100 <p>C. QUALITY ASSURANCE</p> <ol style="list-style-type: none"> Work shall conform to requirements of the American Concrete Institute (ACI) and International Concrete Repair Institute (ICRI) as applicable except where more stringent requirements are shown on Drawings or specified in this Section. Source Limitations: For each independent repair location, use concrete repair materials, epoxy bonding agents, epoxy coatings for reinforcement, galvanic anodes, and repair material admixtures of a single manufacturer. Qualifications <ol style="list-style-type: none"> Manufacturer's Qualifications: Companies furnishing the repair materials shall have a proven track record of at least five years. Furthermore, they shall have in existence a program of training, certifying, and supporting a nationally organized program of approved contractors. Evidence of this shall be made available to the Engineer/Owner upon request. Contractor's Qualifications: Contractor performing the work shall be an approved contractor by the manufacturer furnishing the repair materials and shall have no less than five years of experience in the various types of concrete repair work required in this project. Upon request by the Engineer, a notarized certification from the manufacturer attesting to the training shall be submitted to the Engineer/Owner. Applicator's Qualifications: Concrete repair work shall only be performed by contractors who have successfully used this process on at least three similar structural repairs of equal scope which have performed successfully for a minimum period of five years. Only adequately trained and experienced personnel shall be used on the job. <p>D. EXAMINATION</p> <ol style="list-style-type: none"> Application Planning: In using the specified products of this Section, follow strictly the Manufacturer's specifications and written instructions for mixing and application. <p>E. SURFACE PREPARATION</p> <ol style="list-style-type: none"> Concrete surfaces receiving repair material shall be free of all dust, loose, and unsound materials. Preparation of cavity to receive new repair material shall be in accordance to Section "Surface Preparation for Patching" and manufacturer's instructions. Concrete Surface Inspection: Ensure compliance with Part IV.D.1 above and that the surface and ambient temperature is at least 45°F (7°C) and rising at the time of application. 	<p>G. PATCHING WITH REPAIR MORTAR</p> <ol style="list-style-type: none"> Condition repair mortar material to 65°F-80°F (18°C-26°C) unless otherwise recommended by the manufacturer. Materials beyond this range of temperature shall not be used. Mix the components in a clean container free of contaminants as recommended by the manufacturer. Thoroughly blend components and aggregates with portable mixers to a uniform and homogenous mixture. Small batches of one quart or less may be mixed by spatulas, palette knives or similar devices. Mixing should be accomplished within three (3) minutes when using Jiffy mixer or five (5) minutes when mixed by hand. Apply mortar by means suitable for the consistency of the mortar mix. Use appropriate forms as required for retaining mortar if mixed to a flowable consistency. Consolidate the mortar thoroughly to remove entrapped air. Supplemental wire mesh shall be required for delamination and spall repairs greater than 4 square feet (0.4 square meter) in area and greater than 2-inch (50 mm) depth. Fresh bonding grout is required between successive lifts of patching material. Finish surface of mortar to match the texture and contours of existing concrete. <p>H. CURING</p> <ol style="list-style-type: none"> Immediately after finishing, keep patch material continually moist for at least 24 hours. Continue curing for first seven (7) days after patch placement. During initial and final curing periods maintain patch material above 50°F. Contractor shall be responsible for providing and maintaining the environmental conditions during this curing period. Prevent rapid drying at end of curing period. Provide additional curing as required by manufacturer's recommendations, if more strict. <p>I. CLEANUP</p> <ol style="list-style-type: none"> Protect surfaces surrounding the work areas against spillage. Material spillage shall be cleaned before it sets and becomes difficult to remove. Cleanup all portions of the existing structure that are soiled or stained in the process of concrete repair work. <p>J. FIELD QUALITY CONTROL</p> <ol style="list-style-type: none"> Contractors Responsibility: Contractor is responsible for performing continuous field quality control during the progress of work. Ensure concrete edges of resurfacing and repairs are saw cut to prevent feather edges. Ensure corners of the repair are not overcut. Review material expiration dates and remove expired materials from the project site. Ensure repair material is placed within the bonding agent open items. Accurately measure and monitor the addition of water and aggregate extension when mixing repair mortar or concrete. Monitor repair material working times and dispose of all materials that have exceeded the manufacturer's published working time. Patched areas shall be sounded by the Contractor after curing. Contractor shall repair all hollowness and unsound locations detected by removing and replacing patch or affected area at no additional cost to Owner. If shrinkage cracks appear in patch area after the initial curing period is concluded, the patch in question shall be considered unacceptable, and it shall be removed and replaced by Contractor at no additional cost to Owner. Acceptance of Work <ol style="list-style-type: none"> Acceptance of completed concrete repair will be in accordance to ACI 301.
PART III - SURFACE PREP. FOR PATCHING			PART V - EXPANSION JOINTS
<p>A. GENERAL</p> <ol style="list-style-type: none"> This Section includes the provisions of all labor, materials, supervision and incidentals required to locate and remove all delaminated and unsound concrete, including preparation of cavities created by removal to receive patching material and preparation of existing surface spalls to receive patching material. Related Sections include the following: "Concrete Repair Materials." Contractor shall become fully acquainted with the existing job site conditions and discuss the accessibility of the work areas with the Owner. Provide barricades around the work area with appropriate signage to keep non-construction people from entering work area. Contractor shall provide all traffic cones or barriers to direct traffic during the repair of the facility. This work shall be done in consultation with the Owner. <p>B. PRODUCTS AND MANUFACTURERS</p> <ol style="list-style-type: none"> Cementitious epoxy coating for existing exposed non-prestressed steel reinforcement: <ol style="list-style-type: none"> BASF: MasterEmaco P 124 Sika Chemical Corporation: Armatec 110 EpoCem Euclid Chemical: Duralprep A.C. Substitutions may be considered provided complete technical information and job references are furnished to the Owner/Engineer and approved prior to commencement of work. Changes in products required to suit temperature and environmental conditions at the time of material application shall be specified as separate line items by the Contractor showing credit or additions to the price for the various tasks. In using the selected products, follow strictly the manufacturer's specifications and directions for mixing and application. Also heed all label warnings by manufacturer. Make application in accordance with applicable safety laws. <p>C. INSPECTION</p> <ol style="list-style-type: none"> Horizontal Surfaces: Contractor shall sound all designated floor areas for delaminations. Delaminated areas: Once located by Contractor, Contractor shall further sound and mark them to define limits. Spalls: Contractor shall locate spalls by visual inspection, and mark boundaries. Engineer may mark additional unsound concrete for removal. Areas to be removed shall be rectangular to provide adequate appearance. Contractor shall locate and determine the depth of all embedded reinforcement, electrical conduit, post-tensioned tendons, in repair area and mark these locations for reference during concrete removal. Do not cut any embeds unless approved by Engineer. <p>D. ABRASIVE BLASTING</p> <ol style="list-style-type: none"> Necessary approvals shall be obtained by the Contractor from authorizing governmental or other agencies prior to abrasive-blasting. Abrasive-blasting operations shall comply with the requirements of OSHA and NIOSH (National Institute for Occupational Safety and Health) Standard PB-246-697. <p>E. ELECTRICAL RELOCATION</p> <ol style="list-style-type: none"> Installation of junction boxes to facilitate surface mounting of electrical conduits and re-routing of electrical conduits below the expansion joint area shall be coordinated with the Owner and shall be performed by a licensed electrician. Removal of abandoned electrical conduits from the expansion joint block out shall only be performed after the re-routing of the electrical conduits below the expansion joint is completed. <p>F. RESURFACING PREPARATION</p> <ol style="list-style-type: none"> All delaminated, spalled and unsound concrete shall be removed from within marked boundary to minimum depth of 1/8 inch (3 mm) using 15 lb (65N) to 30 lb (130N) air hammers equipped with chisel point bits. When directed by Engineer, chipping hammers less than 15 lb (65N) shall be used to minimize damage to sound concrete. If delaminations exist beyond minimum removal depth, chipping shall continue until all unsound and delaminated concrete has been removed from cavity. 	<p>J. REINFORCEMENT IN REPAIR AREAS</p> <ol style="list-style-type: none"> All embedded reinforcement exposed during surface preparation that has lost more than 10% of original cross-sectional area due to corrosion shall be considered defective. Defective reinforcement shall be supplemented in accordance to Engineer's instructions and shall		



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No.	Date	Description
	11/6/2020	Expansion Joint RFI Response
Designed by:		JS/NJ
Approved by:		JB
Drawn by:		RC
Project Number:		D01.20007.00
Date:		11/06/2020
Sheet Title:		

Sheet Title:

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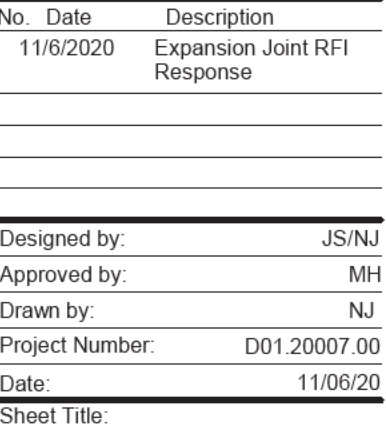
GENERAL STRUCTURAL NOTES															
PART V - EXPANSION JOINTS	PART V - EXPANSION JOINTS	PART VI - MISCELLANEOUS													
<p>A. GENERAL (CONT)</p> <p>2. ADA Certification: Prior to installation, submit written certification from manufacturer indicating that expansion joints conform to Americans with Disabilities Accessibility Guidelines for Buildings and Facilities, as published by U.S. Architectural & Transportation Barriers Compliance Board, 1331 F Street, N.W., Suite 1000, Washington, DC 20004-1111. 1-800-872-2253.</p> <p>3. Environmental Limitations: Install expansion joint systems within the range of ambient and substrate temperatures recommended in writing by manufacturer.</p> <p>B. QUALITY ASSURANCE</p> <p>1. Source Limitations: Use materials for work governed by this section from a single manufacturer.</p> <p>2. Qualifications:</p> <p>a. Manufacturer's Qualifications: Companies furnishing the materials shall have a proven track record of at least five years. Furthermore, they shall have in existence a program of training, certifying, and supporting a nationally organized program of approved contractors. Evidence of this shall be made available to the Engineer and Owner upon request.</p> <p>b. Contractor's Qualifications: Contractor performing the work shall be an approved contractor by the manufacturer furnishing the materials, and shall have no less than five year experience in related work required in this project. Upon request by the Engineer, a notarized certification from the manufacturer attesting to the training shall be submitted to the Engineer and Owner.</p> <p>c. Applicator's Qualifications: Only adequately trained and experienced personnel shall be used on the job.</p> <p>3. Pre-Installation Coordination</p> <p>a. Applicator shall coordinate services with related Work including layout of joint system and approval of methods for providing joints.</p> <p>b. Applicator shall inspect site to insure proper joint configuration in field.</p> <p>c. Expansion joint blockouts shall be floated and troweled before final cure to remove all air pockets, voids and spalls caused by form work.</p> <p>C. EXAMINATION</p> <p>1. Inspect surfaces to receive Work and report immediately in writing to Engineer any deficiencies in surface which render it unsuitable for proper execution of Work.</p> <p>2. Coordinate and verify that related Work meets following requirements:</p> <p>a. Concrete surfaces are finished as acceptable for system to be installed.</p> <p>b. Curing compounds used on concrete surfaces are compatible with Work to be installed.</p> <p>c. Concrete surfaces have completed proper curing period for system selected.</p> <p>d. Joint Sealants are compatible with traffic toppings.</p> <p>3. Acid etching: Prohibited.</p> <p>4. All openings to occupied space shall be sealed to prevent cleaning materials, solvents and fumes from infiltration. All protective measures and/or ventilating systems required to prevent infiltration are incidental to this Work.</p> <p>D. PREPARATION</p> <p>1. General Contractor: Correct unsatisfactory conditions in manner acceptable to installer before installing expansion joint system. All honeycombs and air voids in blockouts shall be patched as acceptable to Engineer prior to installation of Expansion Joint Sealant system.</p> <p>2. Coordinate expansion joint system with other related Work before installation of expansion joint.</p> <p>3. Contractor shall remove any interfering materials (i.e. PVC Conduit) from the blockout. Contractor shall ensure that the interfering materials are not operational or functional (i.e. conduits feeding electrical power) before removal.</p> <p>4. Check adhesion to substrates and recommend appropriate preparatory measures.</p> <p>5. Proceed with expansion joint system only after unsatisfactory conditions have been corrected in manner acceptable to installer and product manufacturer.</p> <p>6. Clean joints thoroughly in accordance with manufacturer's instructions to remove all laitance, unsound concrete and curing compounds which may interfere with adhesion.</p> <p>7. Cease installation of expansion joints under adverse weather conditions, or when temperatures are outside manufacturer's recommended limitations for installation.</p> <p>8. Prepare for installation of extruded expansion joint systems in accordance with manufacturer's recommendations.</p> <p>9. Cease installation if expansion joint blockouts and/or openings exhibit cracked edges, voids or spalls. Repair with accepted material prior to installation of expansion joint.</p> <p>10. Check elevations on each side of expansion joint gap utilizing metal straight edge to ensure flush slab-to-slab transition. Present discrepancies to Engineer/Architect.</p> <p>11. Check anticipated or actual minimum and maximum joint openings with Engineer. Compare to manufacturer's movement specifications and make joint sizing recommendations.</p>	<p>E. INSTALLATION</p> <p>1. During months when historic mean daily temperature at project site is 20°F (10°C) or more colder than annual mean daily temperature, premolded sealant shall be installed on temporary basis to prevent hot weather buckling. Permanent installation shall be done in summer when Engineer/Architect directs.</p> <p>2. Install extruded expansion joint system in accordance with manufacturer's instructions.</p> <p>3. Areas adjacent to the joint must be masked with tape to assure clean joint lines.</p> <p>F. CLEANING</p> <p>1. Clean off excess material and material smears adjacent to joints as work progresses using methods and materials approved by manufacturers.</p> <p>G. PROTECTION</p> <p>1. Protect the Expansion Joint System during construction. Heavy construction vehicles will not be permitted to cross the joint without specific and written permission by the Engineer. Subsequent damage to the expansion joint system shall be repaired at the contractor's expense.</p> <p>H. FIELD QUALITY CONTROL</p> <p>1. Responsibilities</p> <p>a. Manufacturer's Responsibility: Manufacturer's field representation shall be responsible for periodically performing quality control reviews.</p> <p>b. Contractor's Responsibility: Contractor is responsible for performing continuous field quality control during the progress of work.</p> <p>2. Minimum Quality Control Requirements</p> <p>a. Water Testing: Prior to opening to traffic, Contractor shall test joint seal for leaks by maintained the joint continuously wet for 12 hours. Repair leaks revealed by examination of seal underside. Repeat test and repairs until all leaks stopped for full 12 hours. Coordinate testing with the Engineer, Owner, Owner's Inspection Agency, and Joint Manufacturer's field representation for witnessing the water testing.</p>	<p>C. EXISTING CONDITIONS (CONT)</p> <p>3. Demolition, cutting, drilling, etc. of existing work shall be performed with great care so as not to jeopardize the structural integrity of the existing building. If any architectural, structural, or MEP members not designated for removal interfere with the new work, the Owner shall be notified immediately and approval obtained prior to removal of those members.</p> <p>4. The contractor shall safely shore existing construction wherever existing supports are removed to allow the installation of new work. All shoring methods and sequencing of demolition shall be the responsibility of the contractor and his engineer.</p> <p>5. The contractor shall perform a survey to locate all existing utilities prior to the start of construction and take care to protect utilities that are to remain in service. Existing civil, mechanical, electrical, plumbing, and emergency protection system servicing any areas outside the work area are to be maintained in operable condition throughout the duration of repairs. Contractor shall make necessary temporary connections to maintain existing utilities in service during the work. Temporary, localized interruption of these systems shall require approval by the Owner.</p> <p>6. The contractor shall provide dust, odor, and noise protection, and safety measures as necessary for the duration of repairs. Provide all measures necessary to protect the existing structure, vehicles, facility patrons, and other persons during construction. Such measures shall include, but not limited to temporary bracing, shoring, formwork, protective enclosures, and traffic controls.</p> <p>7. The contractor shall perform a pre-construction condition survey to document site conditions prior to start of work. Submit survey to Owner and the Engineer.</p> <p>8. The contractor shall repair all damage caused during construction with similar materials and workmanship to restore conditions to levels acceptable to the Owner.</p> <p>D. RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION LOADS</p> <p>1. The Contractor shall not overload the structure during construction. The Contractor shall be responsible for checking the adequacy of the structure to support any applied construction loads, including those due to construction vehicles or equipment, material handling or storage, shoring or reshoring, or any other construction activity. The Contractor shall submit calculations signed and sealed by an engineer licensed in the State of Maryland verifying the adequacy of the structure for any proposed construction loads that are in excess of 40 PSF. The Structural Engineer is not responsible to design or check the structure for loads applied to the structure for any construction activity.</p> <p>E. THE STRUCTURAL ENGINEER'S ROLE DURING CONSTRUCTION</p> <p>1. The Engineer shall not have control nor charge of, and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.</p> <p>2. Periodic site observation by field representatives of Walter P. Moore and Associates is solely for the purpose of becoming generally familiar with the progress and quality of the Work completed and determining, in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the repair contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.</p> <p>F. MAINTENANCE STATEMENT</p> <p>1. All parking structures require periodic maintenance to extend lifespan and to ensure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items such as but not limited to painting of structural steel, protective coating for concrete, replacement of sealants, caulked joints, expansion joints, control joints, repair of spalls and cracks in concrete, and pressure washing of exposed structural elements exposed to a salt environment or other harsh chemicals.</p> <p>G. ABBREVIATIONS</p> <table> <tr> <td>CSP</td><td>Concrete Surface Profile</td></tr> <tr> <td>DEMO</td><td>Demolition</td></tr> <tr> <td>EXIST</td><td>Existing</td></tr> <tr> <td>ICRI</td><td>International Concrete Repair Institute</td></tr> <tr> <td>MAX</td><td>Maximum</td></tr> <tr> <td>TYP</td><td>Typical</td></tr> </table>	CSP	Concrete Surface Profile	DEMO	Demolition	EXIST	Existing	ICRI	International Concrete Repair Institute	MAX	Maximum	TYP	Typical	
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	<p>PART VI - MISCELLANEOUS</p> <p>A. CONTRACT DOCUMENTS</p> <p>1. It is the responsibility of the Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, and performing work.</p> <p>2. Contractor shall fully and properly implement the engineering controls, work practices, and respiratory protection against toxic and hazardous substances including respirable crystalline silica according to Occupational Safety and Health Administration, OSHA 1926.1153. Walter P Moore does not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, nor shall Walter P Moore be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents.</p> <p>3. The repair drawings represent the repaired structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.</p> <p>4. Refer to drawings of existing facility (other than Repair drawings) for complete information including: Expansion joint systems, previous repairs performed in the facility, presence of post-tensioning, location and size of structural members (beams, columns, walls, etc.), slab thickness, and other information relevant to the project.</p> <p>5. If certain features are not fully shown or specified on the drawings, their construction shall be of the same character as shown or specified in similar conditions.</p> <p>B. CONFLICTS IN STRUCTURAL REQUIREMENTS</p> <p>1. Where conflict exists among the various parts of the repair contract documents, repair drawings and general notes the strictest requirements, as indicated by the Engineer, shall govern.</p> <p>C. EXISTING CONDITIONS</p> <p>1. The Contractor shall verify all dimensions and conditions of the existing building at the job site and report any discrepancies from assumed conditions shown on the drawings to the Engineer prior to the fabrication and erection of any members. Existing dimensions shown on the drawings are for general reference only and should not be used for final construction or detailing.</p> <p>2. Existing construction shown on the drawings was obtained from existing construction documents and limited site observation. These drawings of existing construction are available for contractor use and shall be referenced for familiarization with existing conditions. However, the available drawings of existing construction are not necessarily complete. The contractor is responsible for being knowledgeable on information presented in available drawings and shall field verify all pertinent information.</p>														



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I hereby certify that these documents were approved by me, and that
I am a duly licensed professional engineer under the laws of the
State of Maryland, License No. 51800, Expiration Date: 11/22/2021.

No.	Date	Description
	11/6/2020	Expansion Joint RFI Response

Designed by: JS/NJ
Approved by: MH
Drawn by: NJ

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Approved by:	MH
Drawn by:	NJ

(b) (5), (b) (7)(F)

SUTHERLAND FEDERAL
CENTER PARKING
STRUCTURE

Client:

CINNOVAS
DEVELOPMENT
GROUP



No.	Date	Description
	11/6/2020	Expansion Joint RFI Response

Designed by: JS/NJ
Approved by: MH
Drawn by: NJ

(b) (5), (b) (7)(F)

walter
p moore



(b) (5), (b) (7)(F)



Walter P Moore and Associates, Inc.
1747 Pennsylvania Av NW, Suite 1050
Washington, DC 20006

202.481.7685

Project Name:

SUITLAND FEDERAL
CENTER PARKING
STRUCTURE

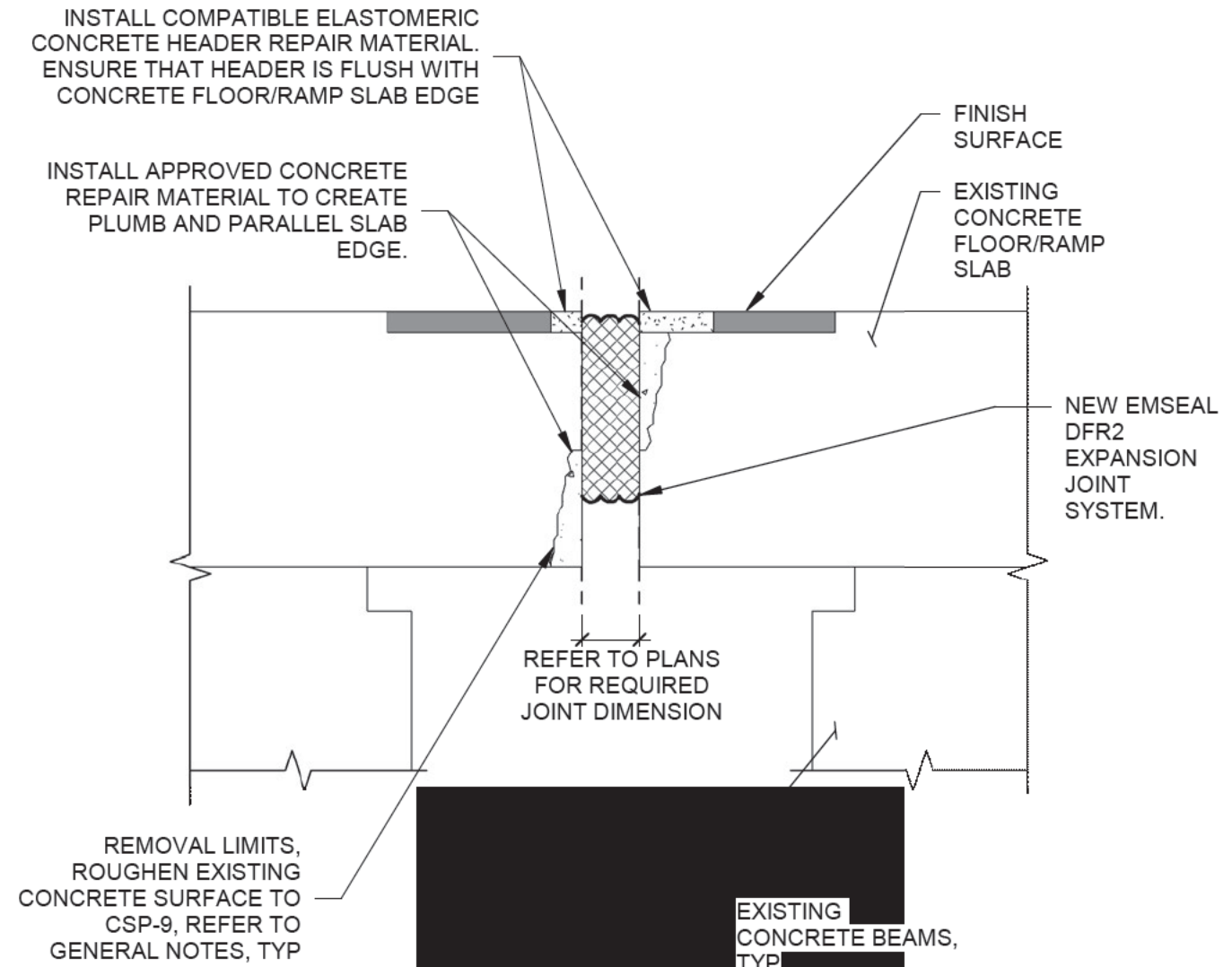
Client:

CINNOVAS
DEVELOPMENT
GROUP



No.	Date	Description
	11/6/2020	Expansion Joint RFI Response

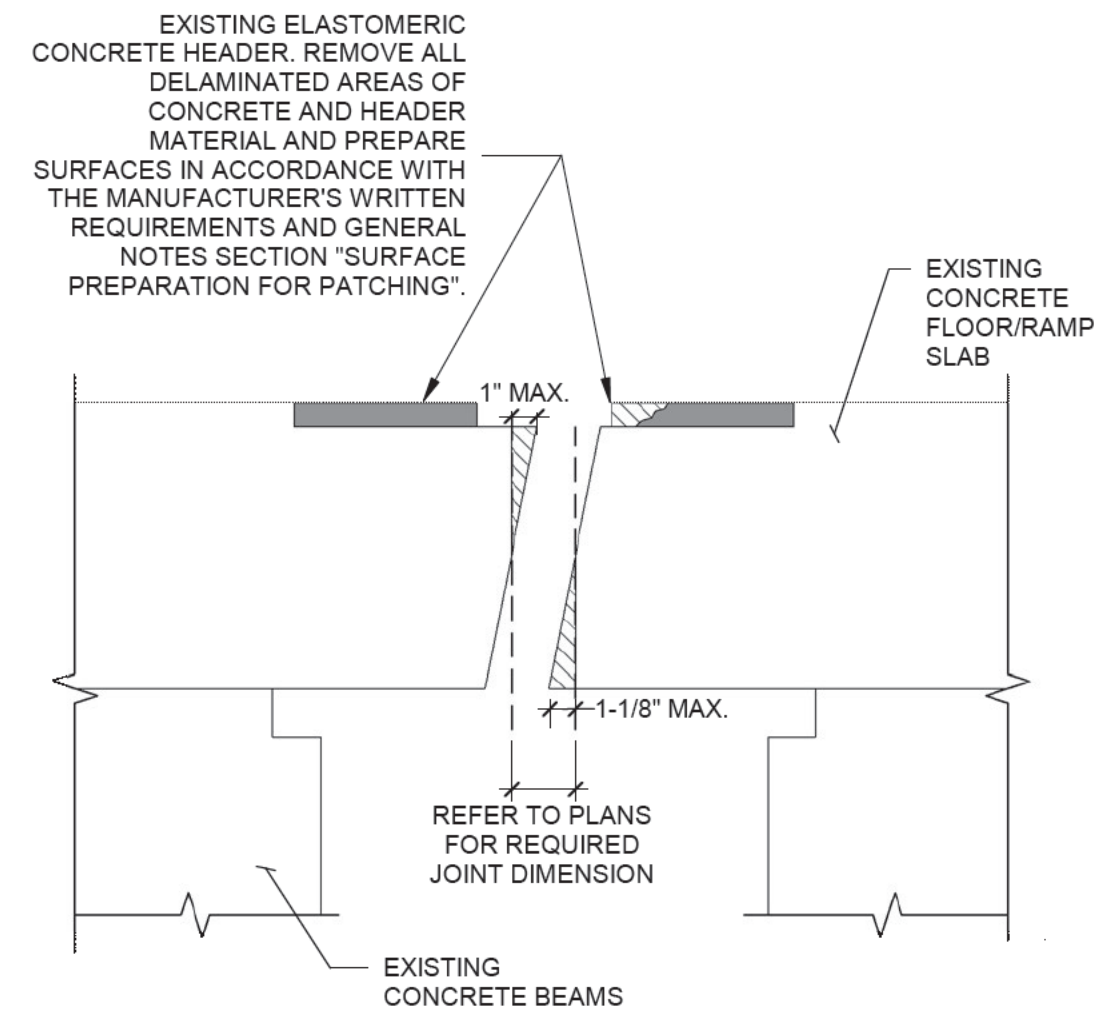
Designed by:	JS/NJ
Approved by:	MH
Drawn by:	NJ



NOTES:

1. ENSURE BLOCKOUT MANUFACTURER.
2. CONTRACTOR SHALL

EXPANSION JOINT
INSTALLATION WIDTH



CAUTION:

1. SLAB HAS EMBEDDED ELECTRICAL CONDUITS IN ADDITION TO PT TENDONS. COMPLETE CONDUIT REROUTING PRIOR TO REMOVAL OF THE CONDUIT FROM THE BLOCKOUT. SEE SHEET S2.1 FOR CONDUIT REMOVAL AND REROUTE DETAILS.

NOTES:

1. LOCATE ALL EMBEDDED ITEMS IN THE VICINITY OF THE EXPANSION JOINT BLOCKOUT USING NON-DESTRUCTIVE TESTING METHODS PRIOR TO PERFORMING CONCRETE REMOVALS TO MODIFY/REPAIR THE BLOCKOUT AT THE SLAB EDGES. REPORT ANY EMBEDDED MATERIALS DETECTED BY NON-DESTRUCTIVE TESTING METHODS THAT CONFLICT WITH CONCRETE REMOVAL OPERATIONS TO THE ENGINEER FOR REVIEW. DO NOT DAMAGE POST-TENSIONING TENDONS/ANCHORS AND MILD REINFORCEMENT.
2. REFER TO GENERAL NOTES FOR CONCRETE SURFACE PREPARATION REQUIREMENTS AND PROCEDURES FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.



Project Name:

**SUITLAND FEDERAL
CENTER PARKING
STRUCTURE**

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**CINNOVAS
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GROUP**



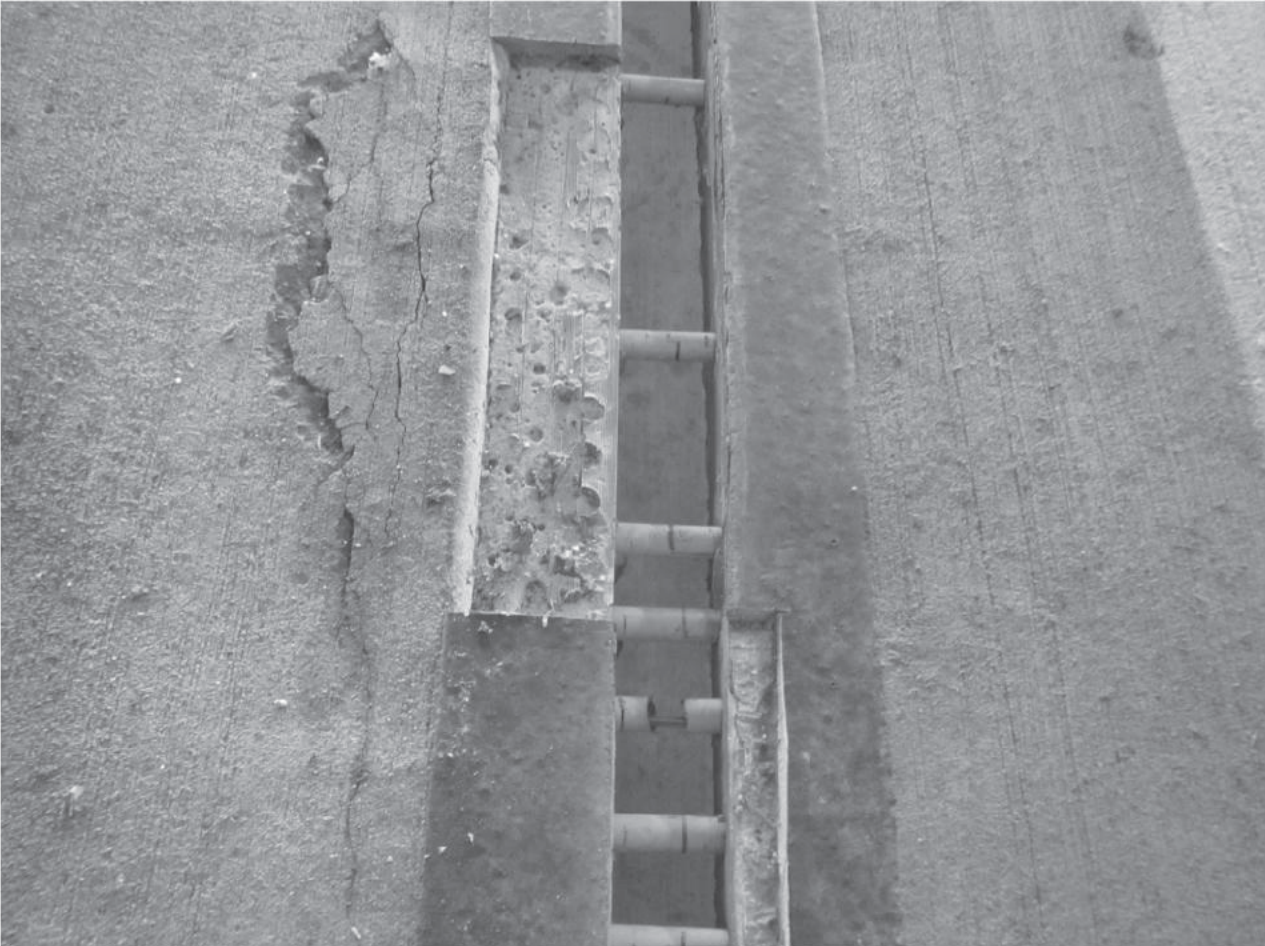
No.	Date	Description
11/6/2020		Expansion Joint RFI Response

Designed by: JS/NJ
Approved by: JB
Drawn by: RC



NOTES:

1. ALL REROUTED ELECTRICAL CONDUITS TO MATCH EXISTING UNDERSIDE CONDUITS, AS SHOWN IN PHOTO.



NOTES:

1. EMBEDDED ELECTRICAL CONDUITS ARE PRESENT IN THE EXISTING CONCRETE SLAB, IN ADDITION TO PT TENDONS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK
2. COORDINATE WITH OWNER TO LOCATE EXISTING CONDUIT TO BE REMOVED AND CUT FLUSH WITH SLAB EDGE.
3. COORDINATE WITH OWNER TO REROUTE ELECTRICAL CONDUIT TO UNDERSIDE OF CONCRETE BEAMS, AS PER EXISTING.